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(54) AIR CONDITIONER FOR VEHICLE

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(57) Abstract:

PURPOSE: To improve the dehumidifying effect of an evaporator and prevent the freezing of the evaporator by providing an auxiliary condenser in parallel with a main condenser in a cooling cycle and arranging this auxiliary condenser on the upstream side of the evaporator in an air conditioning duct.

CONSTITUTION: In the cooling cycle of an air conditioner for vehicle, a compressor 13, a main condenser 14, a liquid tank 15, an expansion valve 16, and an evaporator 6 are connected by pipelines in a closed circuit, and the evaporator 6 is arranged in front of an air mixer damper 8 in an air conditioning duct 1. In this case, an auxiliary condenser 17 is arranged on the upstream side of the evaporator 6 in the air conditioning duct 1. The inlet of this auxiliary condenser 17 is connected to a control valve 18 provided in the cooling cycle, and its outlet is connected to the liquid tank 15 respectively. The control valve is controlled to adjust the distribution ratio of the refrigerant to the main and auxiliary condensers 13, 17.

